

IMPLANTABLE LEADS PERMITTING FUNCTIONAL STATUS MONITORING

Abstract of the Disclosure

5 An implantable lead assembly includes a lead body extending from a
proximal end to a distal end having an intermediate portion therebetween, where the
lead body includes an insulating layer. A conductor is disposed within the insulating
layer and the insulating layer surrounds the conductor. An electrode is coupled to the
lead body, and the electrode is in electrical communication with the conductor. At
10 least one conductive sleeve is disposed within the insulating layer. The at least one
conductive sleeve surrounds the conductor and is electrically isolated from the
electrode. The at least one conductive sleeve has a first impedance value in a first
condition.

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